

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P840074

Luminaire Tested: **LDS4C45D010 EU4459035 4LBSWH**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205729)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDS4C45D010 EU4459035 4LBSWH
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBS TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

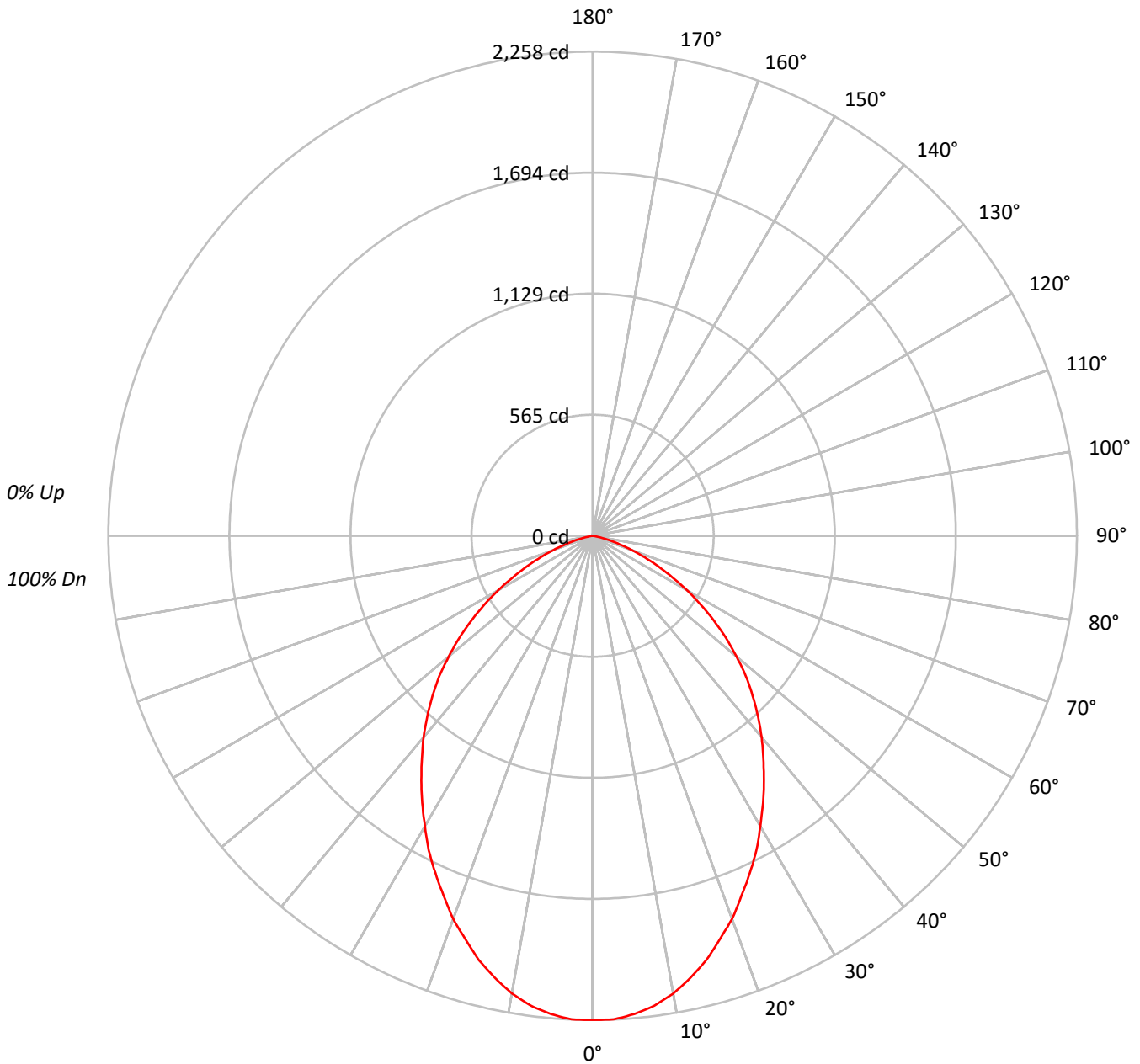
Lumens per Lamp: N/A
Luminaire Lumens: 4317.0 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	79	77			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51			
6	75	63	55	49	73	62	54	49	60	54	49	59	53	48	57	52	48	46			
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41			
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37			
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34			
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	277379
5°	276095
10°	270393
15°	260569
20°	248572
25°	235172
30°	221839
35°	208872
40°	196666
45°	183332
50°	167159
55°	147640
60°	124967
65°	98110
70°	70008
75°	38353
80°	6792
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.5	4.9
10°-20°	574.8	13.3
20°-30°	798.3	18.5
30°-40°	871.1	20.2
40°-50°	812.6	18.8
50°-60°	616.8	14.3
60°-70°	337.7	7.8
70°-80°	92.9	2.2
80°-90°	1.3	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1584.6	36.7
0°-40°	2455.7	56.9
0°-60°	3885.1	90.0
0°-90°	4317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4317.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2258	
5°	2239	211
15°	2049	575
25°	1735	798
35°	1393	871
45°	1055	813
55°	689	617
65°	338	338
75°	81	93
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2257.8
2.5°	2257.8
5°	2238.8
7.5°	2210.3
10°	2167.5
12.5°	2110.5
15°	2048.7
17.5°	1972.7
20°	1901.3
22.5°	1815.7
25°	1734.9
27.5°	1654.2
30°	1563.8
32.5°	1478.2
35°	1392.7
37.5°	1307.1
40°	1226.3
42.5°	1140.7
45°	1055.2
47.5°	969.6
50°	874.6
52.5°	784.3
55°	689.3
57.5°	598.9
60°	508.6
62.5°	418.3
65°	337.5
67.5°	261.4
70°	194.9
72.5°	133.1
75°	80.8
77.5°	38.0
80°	9.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)